

DERWENT PUBLICATIONS LTD.

61751V/35 CIBA-GEIGY AG 23.10.73-CH-014936 (+002381) (22.08.74) C07d-31/32 Oxo alkyl pyridine cmpds. - having fibrinolytic, analgesic and anti-inflammatory activity are prep'd. e.g. by oxids of corresp. alcohol	B03 CIBA 19.02.73 DT 2405-171	B7-D4, B12-(D1,D7), B12-H2. (iii) $\text{R}-\text{Ph}-\text{A}-\text{C}-\text{Py} \xrightarrow{\text{X}} (\text{I})$ (iv) $\text{Py}-\text{Y}_2 + \text{R}-\text{Ph}-\text{H} \xrightarrow{\text{X}} (\text{I})$ (v) $\text{R}-\text{Ph}-\text{A}_2-\text{C}-\text{Py} \xrightarrow{\text{H}_2} (\text{I}; \text{A}=\text{alkylen})$ wherein (i) one of the gps. Y and Z is carboxyl, or a functional deriv. thereof and the other is a metal atom; (ii) $\text{A}_1=\text{A}$ subst'd. by a cleavable gp. Y; esp. an $\alpha\text{-CO}_2\text{H}$ gp.; (iii) Y_2 is a functionally modified carboxyl gp.; (iv) $\text{A}_2=\text{lower alkenylen}$	3 20
Cmpds. of formula (I) and their salts are new: X $\text{R}-\text{Ph}-\text{A}-\text{C}-\text{Py}$ (I) (where R= opt. subst'd. cycloaliphatic gp.), Ph= ortho- or para-phenylene gp.; A= lower alkylen or a direct bond, X= oxo grp. opt. functionally modified e.g. to NOH, Py= pyridyl). USES Cmpds. (I) are useful intermediates and have fibrinolytic, analgesic and anti-inflammatory activities. Test results are reported. PREPARATION (i) $\text{R}-\text{Ph}-\text{A}-\text{Y} + \text{Z}-\text{Py} \xrightarrow{\text{X}} (\text{I})$ (ii) $\text{R}-\text{Ph}-\text{A}-\text{CH}-\text{Py} \xrightarrow[\text{esp. CrO}_3]{\text{oxidn.}} (\text{I})$			61751V Contd

61751V Contd SPECIFICALLY CLAIMED <u>Py</u> -ACO Ph position of position of substituent substituents 2- -CO or -CH(CH ₃)CO 4-R° or 3-Cl-4-R° 3- -CO 4-R° 2- -CO or -CH(CH ₃)CO (or oxime) 4-R ¹⁰ 4- -CH(CH ₃)CO 4-R ¹⁰ 2-, 6-Me -CH(CH ₃)CO 4-R ¹⁰ (R°= cyclohexyl; R ¹⁰ = cyclohexen-1-yl).	tion-b.pt. 200° (0.9mm Hg) contained crude 2-[<i>p</i> -(1-cyclohexenyl)-phenyl]oxymethyl-pyridine, m.pt. 58-60°. (61751V)
EXAMPLE A 1.5N soln. (175 ml) of butyllithium in ether was stirred at -60° under an atmos. of N ₂ and 2-bromopyridine (40 g) in anhydrous ether (50 ml) was slowly added dropwise. After 15 mins. p-(1-cyclohexenyl)-benzoic acid (15 g) in anhydrous ether (250 ml) was added. The reaction mixt. was then allowed to warm to room temp. before being stirred for 2 hrs. It was then poured onto a mixt. of ice and NH ₄ Cl and partitioned between water and ether. The ether phase was sepd., washed with water, 0.1N NaOH soln. and water, dried over Na ₂ SO ₄ and evaporated under reduced pressure. The residue was distilled under reduced pressure. The frac-	

61761V/35 N V PHILIPS 20.02.73-NL-002304 (22.08.74) B01d-59/24 C01g-57 Liquids contg. 99m technetium - isotope generator using alumina and hydrated manganese dioxide with 99m molybdenum as sodium molybdate	B06 E31 K08 PHG 20.02.73 DT 2405-765	B5-A4, B12-K4. articles which are partially or fully coated with hydrated or partly hydrated manganese dioxide. The lower layer (13) is alumina. The total amt. of carrier material is e.g. 7g., of which 3g. is in the upper layer. The carrier material is located between the glass filter (6) and a micropore filter (14) held against the material by a sealing ring (15). In the upper layer (12) is the mother isotope ^{99m} Tc as an alkali metal molybdate, e.g. sodium molybdate. A wash liq. e.g. physiological saline is fed into the top of the vessel through a hollow injection needle and the mother isotope ^{99m} Tc is absorbed as sodium pertechnetate which is taken up by the soln. and then, after passing through the lower layer (13) and the filter (6), can be drawn off with an injection needle. (61761V).	2 21
USE The solns. contg. ^{99m} Tc are useful as tracers in medical diagnosis and for marking protein and sulphur colloids. ADVANTAGES The product solns. are of good purity, contg. no Al ³⁺ ions and have pH 6.5-7.5. DETAILS The vessel (1) has an entry port (2) at the top and an outlet (3) at the bottom; it is flanged on both ends (4). There is a taper at (5) housing a trapezoidal glass filter (6). The inlet and outlet (2,3) are closed with flanged rubber plugs (7) secured by aluminium covers (10) containing a hole (11). The upper layer of carrier material (12) consists of alumina			48